

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
9 December 2004 (09.12.2004)

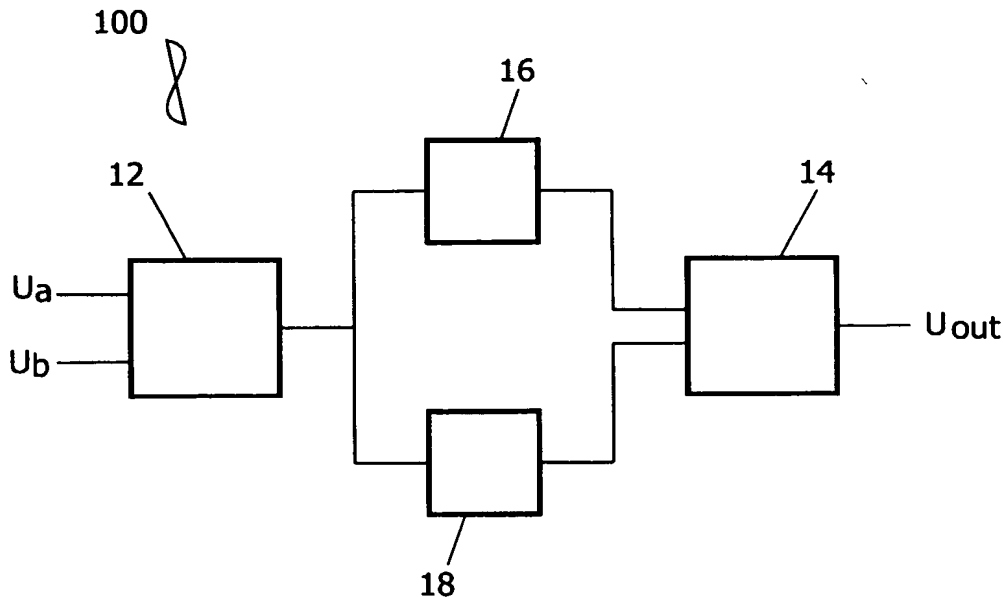
PCT

(10) International Publication Number  
**WO 2004/107560 A1**

- (51) International Patent Classification<sup>7</sup>: **H03D 13/00** (72) Inventor; and  
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(21) International Application Number: **PCT/IB2004/050705** [DE/DE]; c/o Philips Intellectual Property & Standards  
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(22) International Filing Date: **14 May 2004 (14.05.2004)** (74) Agent: **MEYER, Michael**; Philips Intellectual Property &  
Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).  
(25) Filing Language: **English** (81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
(26) Publication Language: **English** AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
(30) Priority Data: **03101533.2** **27 May 2003 (27.05.2003)** **EP** GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
(71) Applicant (for DE only): **PHILIPS INTELLECTUAL** PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
**PROPERTY & STANDARDS GMBH [DE/DE]**; Stein- TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
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(71) Applicant (for all designated States except DE, US): (84) Designated States (unless otherwise indicated, for every  
**KONINKLIJKE PHILIPS ELECTRONICS N.V.** kind of regional protection available): ARIPO (BW, GH,  
[NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
(NL). ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: **PHASE DETECTOR AND METHOD OF PHASE DETECTION**



(57) Abstract: In order to provide a phase detector and a method of phase detection which are distinguished by greater sensitivity and simple implementability, at least one differential signal of two input signals ( $U_a$ ;  $U_b$ ) may be formed over at least one predefined period by means of a first subtractor (12), at least one maximum value of the at least one differential signal may be detected by means of a first peak detector (16) and at least one minimum value of the at least one differential signal may be detected by means of a second peak detector (18) and at least one further differential signal ( $U_{out}$ ) may be formed from the at least one maximum value and the at least one minimum value by means of a second subtractor (14).

WO 2004/107560 A1



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*